

Title (en)

PRESSURIZED VESSEL HEAT SHIELD AND THERMAL PRESSURE RELIEF SYSTEM

Title (de)

DRUCKGEFÄSSHITZESCHILD UND THERMISCHES DRUCKENTLASTUNGSSYSTEM

Title (fr)

ÉCRAN THERMIQUE DE RÉCIPIENT SOUS PRESSION ET SYSTÈME DE DÉCOMPRESSION THERMIQUE

Publication

EP 3903017 B1 20230322 (EN)

Application

EP 20770415 A 20200311

Priority

- US 201962817363 P 20190312
- US 2020022165 W 20200311

Abstract (en)

[origin: WO2020185945A1] A pressure relief system comprises a pressurized vessel containing a fuel source and comprising a thermal pressure relief device, a heat shield coating disposed on an outer surface of the pressurized vessel, a sensor in thermal communication with the heat shield and configured to receive thermal energy from the heat shield, and an electronic control module electrically coupled to the sensor and the thermal pressure relief device. The sensor, responsive to receiving a threshold amount of thermal energy from the heat shield coating, may transmit a signal to the electronic control module. The electronic control module may activate the thermal pressure relief device in response to the signal.

IPC 8 full level

F17C 13/02 (2006.01); **F17C 1/12** (2006.01); **F17C 7/00** (2006.01); **F17C 13/04** (2006.01); **G05D 9/12** (2006.01)

CPC (source: EP US)

B60L 58/32 (2019.01 - US); **F17C 13/026** (2013.01 - US); **F17C 13/04** (2013.01 - EP US); **F17C 2201/0109** (2013.01 - EP); **F17C 2201/0128** (2013.01 - EP); **F17C 2201/0157** (2013.01 - EP); **F17C 2201/035** (2013.01 - EP); **F17C 2201/056** (2013.01 - EP); **F17C 2201/058** (2013.01 - EP); **F17C 2205/013** (2013.01 - EP); **F17C 2205/0326** (2013.01 - US); **F17C 2205/0332** (2013.01 - EP US); **F17C 2205/0335** (2013.01 - EP); **F17C 2205/035** (2013.01 - EP); **F17C 2221/012** (2013.01 - EP US); **F17C 2221/033** (2013.01 - EP); **F17C 2223/0123** (2013.01 - EP US); **F17C 2223/036** (2013.01 - EP); **F17C 2250/032** (2013.01 - EP); **F17C 2250/034** (2013.01 - EP); **F17C 2250/0439** (2013.01 - EP); **F17C 2260/023** (2013.01 - US); **F17C 2270/0184** (2013.01 - EP US); **Y02E 60/32** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP); **Y02T 90/40** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2020185945 A1 20200917; **WO 2020185945 A8 20210422**; EP 3903017 A1 20211103; EP 3903017 A4 20220323; EP 3903017 B1 20230322; US 11371658 B2 20220628; US 2020363016 A1 20201119

DOCDB simple family (application)

US 2020022165 W 20200311; EP 20770415 A 20200311; US 202016944641 A 20200731